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TCS 4707/63-KH
M/EB 476/63
12 November 1963
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MEMORANDUM FOR: Chief, Military-Economics Division, ORR

ATTENTION: [REDACTED] 25X1A

THROUGH: Chief, Requirements Branch, Reconnaissance Group, CGS

FROM: Chief, CIA/PID (NPIC)

SUBJECT: Air Frame/Engine Research and Development Facilities in the USSR

REFERENCE: (a) Requirement RR/105/63
(b) CIA/PID Project C 643-63

1. This memorandum is the second partial response to your requirement dated 15 May 1963 requesting mensuration of buildings in air frame/engine research and development facilities in the USSR.

25X1A 2. (a) Shchelkovo Aircraft Research Institute. A line drawing of this installation was prepared utilizing the most recent coverage [REDACTED]. Due to the small scale and obliquity of the photography a complete line drawing of the installation could not be accomplished. All measurements are approximate and could contain errors as high as 30-40 percent. The following buildings were discernible (see Figures 1 and 2): Items (1) one building, 225 by 45 feet; (2) one building, 135 by 30 feet; (3) one building, a- 70 by 30 feet, b- 120 by 30 feet; (4) three buildings, 105 by 25 feet; (5) one building, 115 by 35 feet; (6) three buildings, 100 by 30 feet; (7) two buildings, a- 10 by 30 feet, b- 25 by 25 feet; (8) three buildings, 90 by 30 feet; (9) three buildings, 115 by 30 feet; (10) fifteen buildings, 60 by 25 feet; (11) one building, 60 by 70 feet; (12) two buildings, 130 by 35 feet; (13) two buildings, 110 by 40 feet; (14) four buildings, 110 by 30 feet; (15) one building, a- 50 by 35 feet, b- 150 by 35 feet; (16) one building, 60 by 35 feet; (17) one building, 115 by 35 feet; (18) one building, 70 by 30 feet; (19) one building, a- 100 by 45 feet, b- 95 by 35 feet, c- two sections, 35 by 35 feet; (20) three buildings, 90 by 30 feet; (21) one building, 90 by 45 feet; (22) one building, a- 135 by 45 feet, b- two wings, 35 by 35 feet; (23) one building, a- two wings 60 by 45 feet, b- 150 by 45 feet; (24) three buildings, 100 by 40 feet; (25) one building, a- 50 by 40 feet, b- 100 by 40 feet; (26) one building, 125 by 40 feet; (27) one building, 70 by 35 feet; (28) one building, 160 by 40 feet; (29) one building, 50 by 35 feet; (30) one building, 100 by 40 feet; (31) one building, a- 205 by 60 feet, b- 200 by 60 feet, c- 365 by 60 feet, d- 60 by 60 feet; (32) one building, 170 by 50 feet; (33) one building, a- 135 by 50 feet, b- 150 by 50 feet, c- 50 by 50 feet; (34) one building, 150 by 40 feet; and (35) one building, 170 by 45 feet.

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(b) Tupolev OKB-156. A line drawing of this installation was prepared utilizing World War II (GX) photography as a base. Due to the small scale of the KEYHOLE coverage its use was limited. Two new buildings were discernible (Figure 3, Buildings 38 and 39) on [REDACTED] coverage, but otherwise the installation appeared basically unchanged. All measurements are approximate but the errors are probably less than 10 percent on all buildings except Buildings 38 and 40 which were delineated from KEYHOLE coverage. The following buildings were delineated (see Figures 3 and 4): Items (1) one building, a- 120 by 60 feet, b- 90 by 60 feet, c- 215 by 110 feet overall, probable two story; (2) one building, 160 by 45 feet, probable one story; (3) one building, a- 105 by 60 feet, b- 300 by 75 feet, probable three story; (4) one building, a- 165 by 60 feet, b- 90 by 70 feet, probable one story; (5) one building, 90 by 60 feet, probable one story; (6) one building, a- 25 by 30 feet, b- 250 by 50 feet, probable one story; (7) one building, 330 by 45 feet, probable one story; (8) one building, 170 by 45 feet, probable one story; (9) one building, a- 85 by 45 feet, b- 195 by 55 feet, c- 60 by 55 feet, d- 100 by 55 feet, e- three wings, 30 by 45 feet, f- 105 by 35 feet, sections a, b, c, and d are probable two story, sections e and f are probable one story; (10) one building, a- 60 by 45 feet, b- 145 by 75 feet, probable two story; (11) one building, a- 85 by 55 feet, b- 185 by 55 feet, probable two story; (12) one building, 80 by 45 feet, probable two story; (13) one building, a- 535 by 55 feet, b- 230 by 160 feet overall, c- 290 by 70 feet, sections a- and b- are probable one story, section c- is probable two story; (14) one building, 185 by 70 feet, probable two story; (15) one building, 215 by 35 feet, probable one story; (16) one building, 155 by 60 feet, probable two story; (17) one building, a- 70 by 15 feet, b- 270 by 35 feet, probable one story; (18) one building, 320 by 60 feet, probable three story; (19) one building, 100 by 60 feet, probable two story; (20) one building, a- 60 by 30 feet, b- 170 by 40 feet, c- 60 by 45 feet, probable three story; (21) one building, a- 60 by 60 feet, b- 70 by 30 feet, probable two story; (22) one building, a- 60 by 60 feet, b- 215 by 100 feet, probable two story; (23) one building, a- 125 by 115 feet, b- 60 by 45 feet, c- 170 by 75 feet, d- 170 by 60 feet, probable one story; (24) one building, 190 by 45 feet overall, probable one story; (25) one building, 135 by 45 feet, probable one story; (26) one building, 60 by 45 feet, probable one story; (27) one building, a- 135 by 120 feet, b- 310 by 60 feet, probable two story; (28) one building, a- 90 by 30 feet, b- 135 by 45 feet, c- 155 by 60 feet, probable one story; (29) one building, a- 30 by 20 feet, b- 90 by 60 feet, c- 50 by 20 feet, d- 230 by 30 feet, e- 50 by 50 feet, (f) 90 by 50 feet, probable one story; (30) one building, a- 40 by 25 feet, b- 90 by 60 feet, c- 85 by 55 feet, probable one story; (31) one building, a- 255 by 50 feet, b- two wings 50 by 45 feet, probable two story; (32) one building, a- 125 by 55 feet, b- 145 by 25 feet, probable two story; (33) one building, 165 by 30 feet, probable one story; (34) one building, a- 35 by 35 feet, b- 45 by 40 feet, probable one story; (35) two buildings, 90 by 45 feet, probable one story; (36) two buildings, 60 by 30 feet, probable one story; (37) one building, 90 by 40 feet, probable one story; (38) one building 390 by 80 feet, probable four story; (39) one building, 135 by 40 feet, probable

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one story; (40) one building, a- 85 by 35 feet, b- 125 by 30 feet, a- 100 by 35 feet, probable two story; (41) one building, a- 140 by 65 feet, b- 200 by 90 feet, c- 115 by 60 feet, probable two story; (42) one building, a- 90 by 30 feet, b- 90 by 75 feet, probable two story; (43) one building, a- 25 by 15 feet, b- 120 by 30 feet, probable one story; (44) one building, a- 220 by 75 feet, b- 55 by 20 feet, probable one story; (45) one building, a- 45 by 45 feet, b- 340 by 75 feet, c- 85 by 60 feet, probable one story; (46) one building, a- 390 by 390 feet, b- 85 by 45 feet, c- 125 by 60 feet, probable two story; (47) one building, a- 45 by 25 feet, b- 120 by 45 feet, probable one story; (48) one building, a- 170 by 70 feet, b- 320 by 70 feet, c- 90 by 70 feet, probable four story; and (49) one building, a- 125 by 60 feet, probable four story, b- 150 by 50 feet, probable two story.

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25X1B

(c) Tumansky Explosive Plant 300. A line drawing of this installation was prepared utilizing [redacted] as a base. KEYHOLE

coverage was examined but [redacted] limited its use. Only

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Buildings 8 and 40 were added to the line drawing from [redacted] coverage. Despite the poor quality KEYHOLE coverage no major change in the installation was apparent on [redacted] CIA Memo

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GP/I-70 dated 25 March 1955 was examined and is recommended to the requestor as an additional source on this installation. The following buildings were delineated, (see Figure 5): Items (1) one building, 140 by 85 feet; (2) one building, 65 by 35 feet; (3) one building, 105 by 35 feet; (4) one building, 320 by 80 feet; (5) one building, 170 by 70 feet; (6) one building, 50 by 45 feet; (7) one building, 65 by 65 feet; (8) one building, 250 by 45 feet; (9) one building, 180 by 60 feet, b- 180 by 90 feet, c- 265 by 140 feet; (10) one building, 100 by 75 feet; (11) one building, 175 by 60 feet; (12) one building, 170 by 80 feet; (13) one building, 100 by 75 feet; (14) one building, 180 by 35 feet; (15) one building, 235 by 45 feet; (16) one building, 120 by 95 feet; (17) one building, 95 by 45 feet; (18) one building, 265 by 75 feet; (19) one building, 265 by 85 feet; (20) one building, a- 235 by 50 feet, b- 140 by 60 feet; (21) one building, 210 by 75 feet; (22) one building, 130 by 80 feet; (23) one building, 95 by 60 feet; (24) one building, a- 225 by 130 feet, b- 140 by 70 feet; (25) one building, 120 by 60 feet; (26) one building, 95 by 60 feet; (27) two buildings, 70 by 45 feet; (28) one building, a- 140 by 35 feet, b- 115 by 55 feet; (29) three buildings, 120 by 35 feet; (30) one building, a- 140 by 45 feet, b- 80 by 80 feet; (31) one building, 95 by 40 feet; (32) one building, 110 by 110 feet; (33) one building, a- 25 by 25 feet, b- 65 by 45 feet; (34) one building, 85 by 60 feet; (35) one building, a- two wings 80 by 40 feet, b- 40 feet wide, inside chord 105 feet, outside chord 160 feet; (36) one building, 60 by 35 feet; (37) one building, 45 by 30 feet; (38) one building, 80 by 35 feet; (39) one building, a- 45 by 45 feet, b- 255 by 80 feet; and (40) one building, 220 by 75 feet.

3. The photo analyst on this project is [redacted] and he may be contacted on extension 2078, should you have any questions concerning this project.

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4. This project is not considered complete and additional portions of the project will be forwarded upon completion

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Enclosures:

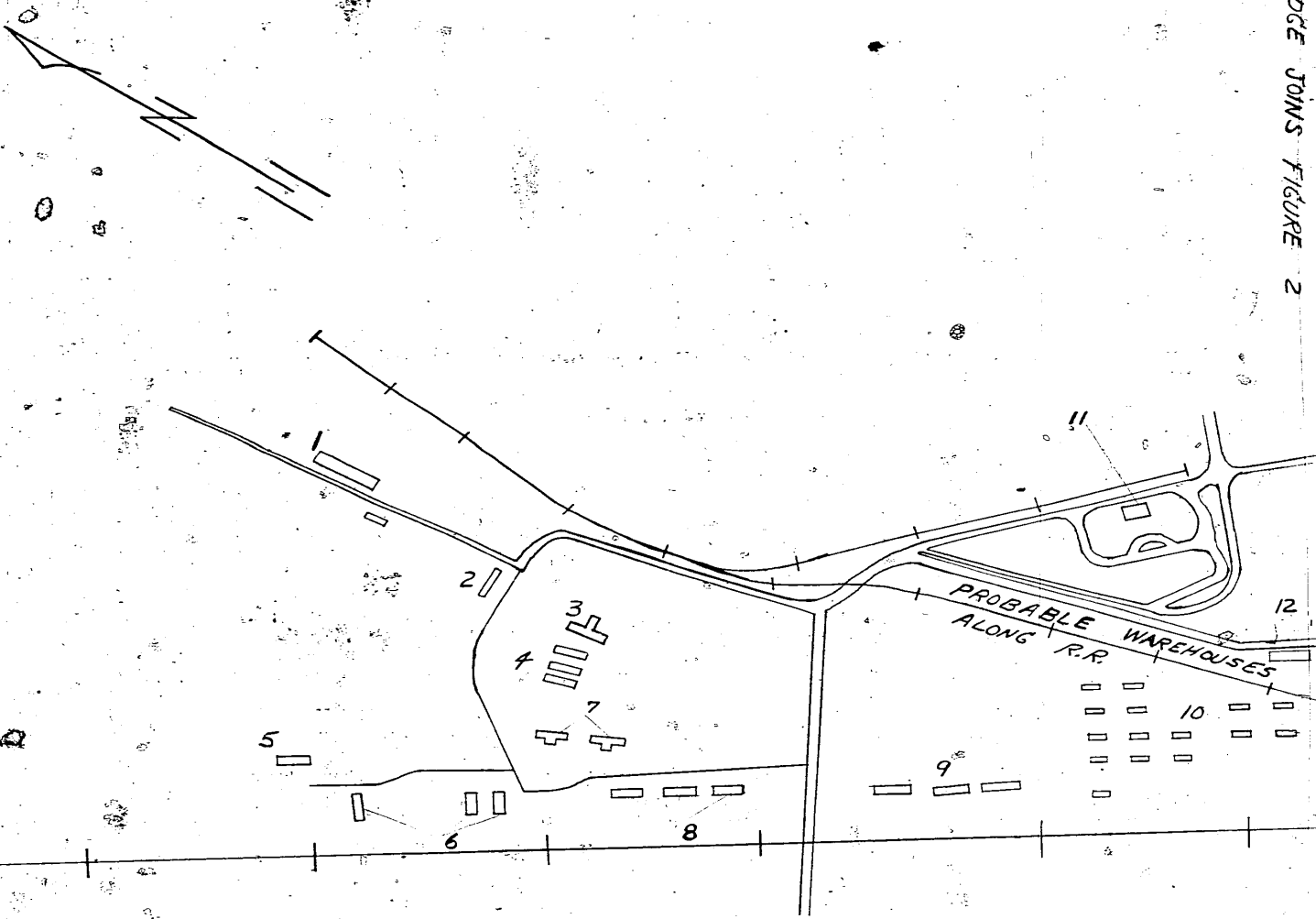
- 1 - Five (5) line drawings
(CIA/PID/MEB-P-262/63 thru P-265/63)

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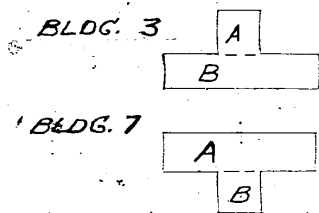
UNRECTIFIED DRAWING

FIGURE ONE

TOP SECRET RUFF CHESS



BUILDING SECTIONS KEY



CIA/PID/MEB-262/63
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TOP SECRET RUFF CHESS
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EDGE JONS FIGURE 2

TOP SECRET CHES RUFF

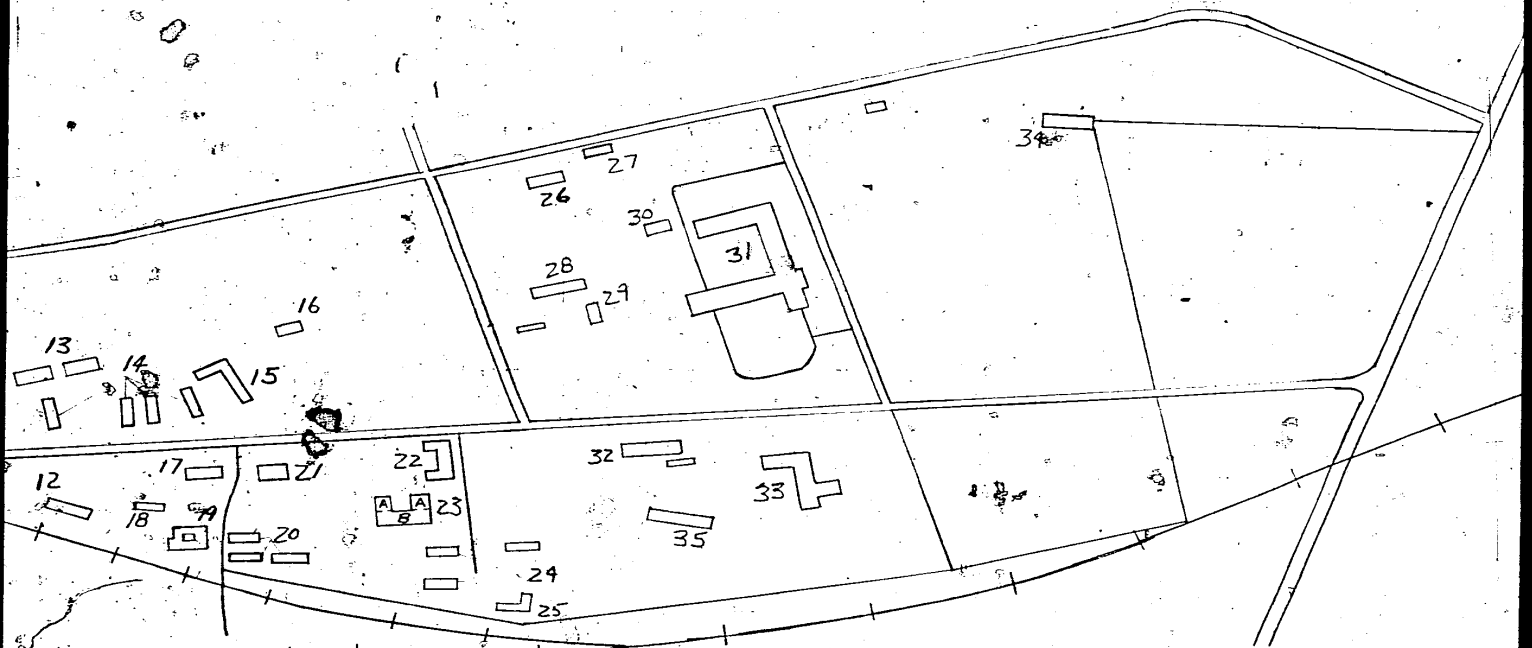
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FIGURE TWO

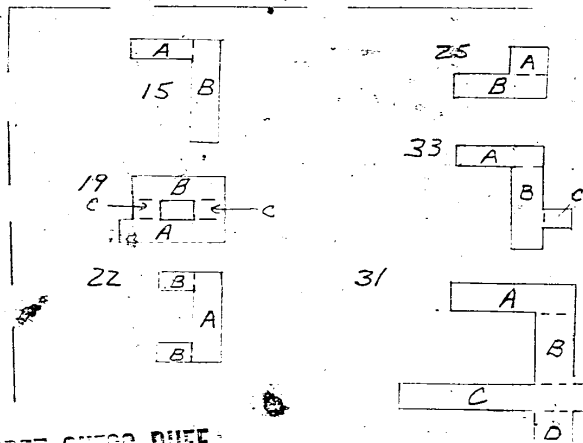
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EDGE JOINS FIGURE 1

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BUILDING
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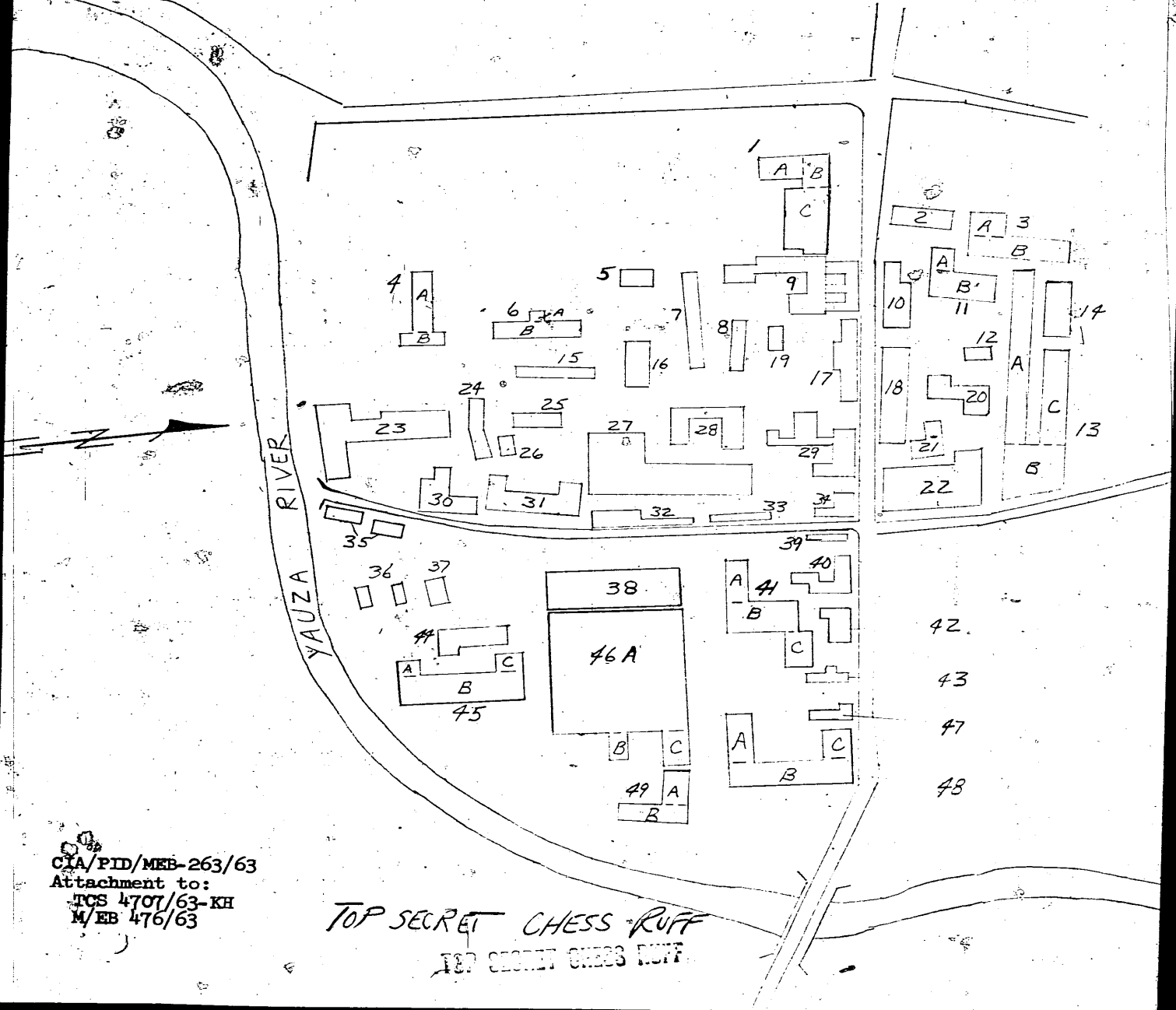
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FIGURE THREE

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TOP SECRET CHIESS RUFF



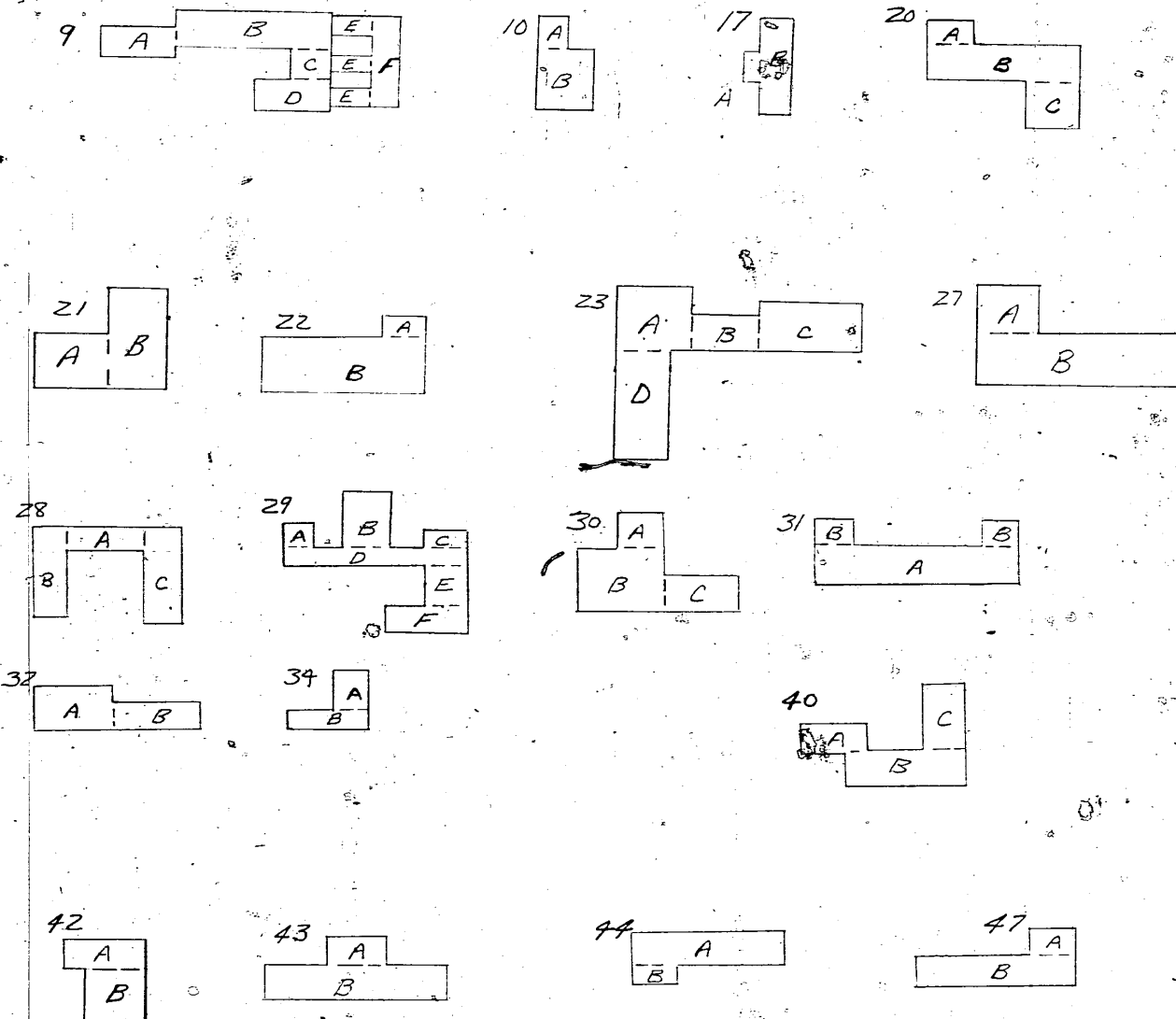
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FIGURE FOUR

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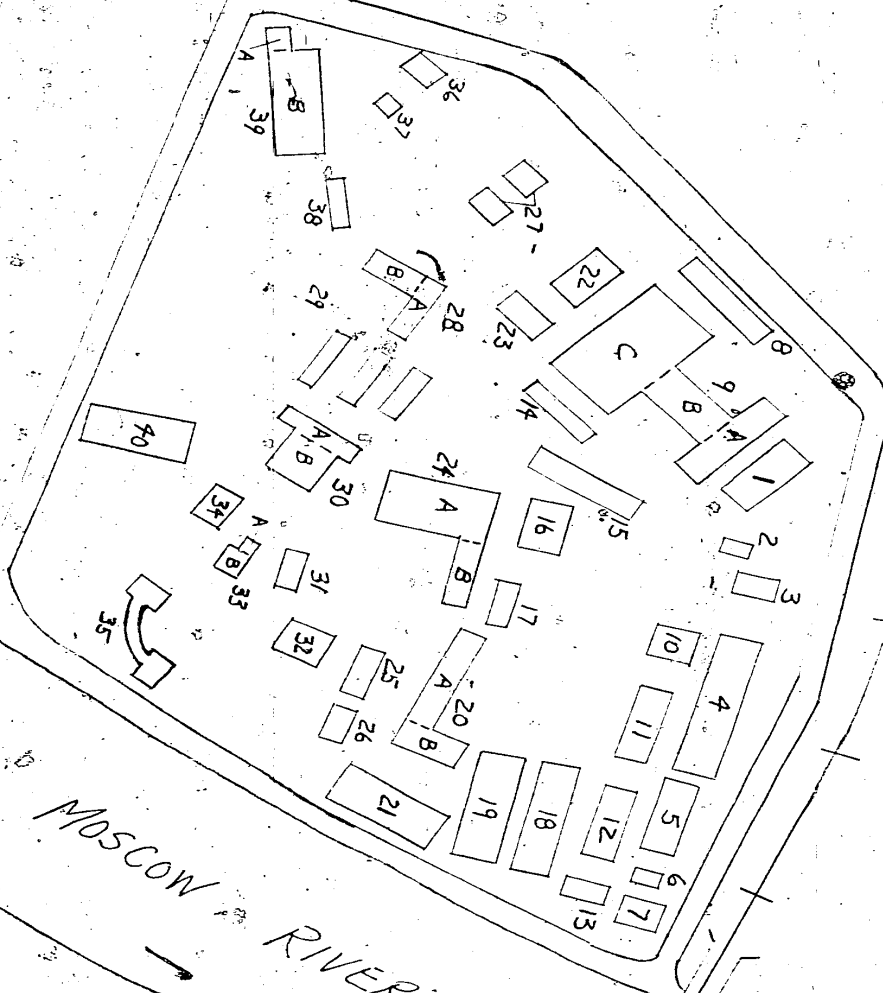
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UNRECORDED DRAWING

FIGURE FIVE

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MOSCOW RIVER

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